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(71)Applicant : FUJITSU LTD

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(72)Inventor : SEYAMA YOSHIHIKO  
SHIMIZU YUTAKA

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## (54) PRODUCTION OF SINTERED COMPACT AND MAGNET BASE

(57)Abstract:

PURPOSE: To produce a sintered compact in high yield and at a low cost by injection molding and sintering.

CONSTITUTION: A first compact separately formed is inserted into an injection- molding die, a raw powder consisting of the same or different material from the first compact is injection- molded in the die, and a second compact integrated with the first compact is formed. The second compact is dewaxed and then sintered. In the second compact, the difference in the coefficient of contraction in sintering between the first compact and the part formed when the second compact is formed is controlled to  $\leq 5\%$ . The magnet base is formed from a material contg. a core or the peripheral part including the core and a magnetic circuit forming part and in which the core or its peripheral part and the magnetic circuit forming part are made from the different materials or the same material having different densities.

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